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chain bonds:
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exact bonds:
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Match level: 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 8:CLASS 9:CLASS 10:CLASS

L6 ANSWER 26 OF 46 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1987:172202 CAPLUS

DOCUMENT NUMBER: 106:172202

TITLE: Limitations of N-hydroxysuccinimide esters in affinity

chromatography and protein immobilization

AUTHOR(S): Wilchek, Meir; Miron, Talia

CORPORATE SOURCE: Dep. Biophys., Weizmann Inst. Sci., Rehovot, 76100,

Israel

SOURCE: Biochemistry (1987), 26(8), 2155-61 CODEN: BICHAW; ISSN: 0006-2960

DOCUMENT TYPE: Journal LANGUAGE: English

The carbodiimide-mediated reaction of N-hydroxysuccinimide with carboxyl groups immobilized via addn. of aminocaproic acid to hydroxyl-contq. polymers (such as Sepharose or Trisacryl) leads to an undesirable side reaction in high yields, the product of which interferes with the application of such columns for further affinity-based purifn. In addn. to the desired N-hydroxysuccinimide ester, a bis(N-hydroxysuccinimide) deriv. of .beta.-alanine [namely, N-[(succinimidooxy)carbonyl]-.beta.alanine N-hydroxysuccinimide ester) is produced that reacts subsequently with the hydroxyl group of the polymer via ester and carbamate bonds. These .beta.-alanine derivs. are formed upon interaction of dicyclohexylcarbodiimide with 3 equiv of N-hydroxysuccinimide followed by a Lossen rearrangement. The amt. of .beta.-alanine thus coupled is very high compared to the no. of carboxyl groups present on the resin. The .beta.-alanine bound through the ester bond comprises about 90% of the .beta.-alanine bound. Alk. treatment of the ester-bonded .beta.-alanine-contg. polymers (prior to coupling of amino-contg. ligands) causes a rearrangement yielding .beta.-alanine with a free carboxyl group coupled through a stable carbamate linkage. After coupling of amino-contg. ligands, the rearrangement cannot occur, and the beta.-alanine-linked ligand leaks from the polymer via hydrolysis of the ester bond. The newly formed carboxyl groups (derived from the rearrangement) can be used to prep. active esters. In view of the above, methods were developed for the prepn. of nitrophenyl esters as well as N-hydroxysuccinimide esters free of unstable .beta.-alanine derivs. on polymers contg. hydroxyl groups. Upon coupling with amino-contg. ligands, these esters yield resins bearing chem. stable bonds. IT 107037-32-1

RL: FORM (Formation, nonpreparative)

(formation of, from lysine-immobilized agarose by alkali

hydrolysis)

RN 107037-32-1 CAPLUS

CN L-Lysine, N6-[[(2-carboxyethy1)amino]carbony1]- (9CI) (CA INDEX NAME)

L10 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2002 ACS

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ACCESSION NUMBER:
                          1995:324507 CAPLUS
DOCUMENT NUMBER:
                          122:106538
TITLE:
                          Preparation of peptide urethane and urea derivatives
                          that induce cytokine production
                          Ayral-Kaloustian, Semiramis; Schow, Steven R.; Du, Mila T.; Gibbons, James J., Jr.
INVENTOR (S):
PATENT ASSIGNEE(S):
                          American Cyanamid Co., USA
SOURCE:
                          U.S., 25 pp.
                          CODEN: USXXAM
DOCUMENT TYPE:
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LANGUAGE:
                          English
FAMILY ACC. NUM. COUNT:
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PRIORITY APPLN. INFO.:
                                         US 1993-63174 A3 19930512
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OTHER SOURCE(S):
                         MARPAT 122:106538
    Title compds. [I; R1, R3, Ra = H, (substituted) alkyl, cycloalkyl,
     cycloalkylalkyl, vinyl, acetylene, amino, acylamino, aryl, aralkyl,
     aryloxy, heterocyclyl, etc.; R2, Rb, Rc = (protected) carboxy,
     carboxylalkyl, carboxamide; X = 0, S; R4 = H, protecting group], were
     prepd. Thus, [R-(R*,R*)]-N-(R)-6-carboxy-N2-[[2-carboxy-1-methyl-2-[(1-
    oxoheptyl)aminolethoxylcarbonylllysyl-D-alanine (soln. phase prepn. given) at 0.1 mg/kg s.c. in mice induced 4802 U/mL of IL-6. I may be useful in
     the treatment of cancer, AIDS, aplastic anemia, myelodysplastic syndrome,
     infectious disease, and in the enhancement of immune response.
     160578-77-8P 160578-78-9P 160705-80-6P
     160705-89-5P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of, for induction of cytokine prodn.)
    160578-77-8 CAPLUS
    D-Alanine, N-[(R)-6-carboxy-N2-[[[2-carboxy-2-[(1-
    oxoheptyl)amino]ethyl]amino]carbonyl]-L-lysyl]- (9CI) (CA INDEX NAME)
```

RN 160578-78-9 CAPLUS
CN D-Alanine, N-[(R)-6-carboxy-N2-[[[2-carboxy-1-methyl-2-[(1-oxoheptyl)amino]ethyl]amino]carbonyl]-L-lysyl]-, [S-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 160705-80-6 CAPLUS
CN D-Alanine, N-[(R)-6-carboxy-N2-[[[2-carboxy-1-methyl-2-[(1-oxoheptyl)amino]ethyl]amino]carbonyl]-L-lysyl]-, [R-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 160705-89-5 CAPLUS
CN D-Alanine, N-[(R)-6-carboxy-N2-[[[2-carboxy-2-{(1-oxoheptyl)amino]ethyl]amino]carbonyl]-L-lysyl}-, (R)- (9CI) (CA INDEX NAME)

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L10 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
                          1989:135731 CAPLUS
DOCUMENT NUMBER:
                           110:135731
TITLE:
                           Preparation and testing of peptidylaminodiols as renin
                           inhibitors
INVENTOR (S):
                           Fung, Anthony K. L.; Kempf, Dale John; Luly, Jay
                           Richard; Rosenberg, Saul Howard; Plattner, Jacob John
PATENT ASSIGNEE(S):
                           Abbott Laboratories, USA
SOURCE:
                           PCT Int. Appl., 112 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE:
                           Patent
LANGUAGE:
                          English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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                                                                19890322
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                                                                19910610
                          MARPAT 110:135731
     ACHR1-W-U-CHR3CONHCHR4CR5R8CR6R7R9 [I; A = (un) substituted amino,
     acylamino, etc.; W = CO, CHOH; U = CH2, NR2; R1 = alkyl, cycloalkylmethyl,
     (substituted) PhCH2, anilino, thiophenoxy, etc.; R2, R7 = H, alkyl; R3 = alkyl, alkenyl, alkoxyalkoxyalkyl, PhCH2, heterocyclylmethyl; R4 = alkyl, cycloalkylmethyl, PhCH2; R5 = H, CH2:CH, HCO, HOCH2; R6 = H, alkyl,
     CH2:CH, arylalkyl; R8, R9 = OH, NH2], useful as renin inhibitors, were
     prepd. 2S-tert-Butyloxycarbonylamino-1-cyclohexylbut-3-ene (prepn. given)
     was deprotected with HCl/MeOH and coupled with BOC-Phe-Ala-OH (BOC =
     CO2CMe3), using iso-Bu chloroformate and N-methylmorpholine in THF/DMF at
     -13.degree.. the product was treated with OsO4/N-methylmorpholine N-oxide
     in THF to give 3S-N-(tert-butoxycarbonylphenylalanylalanylamino)-4-
     cyclohexyl-1,2(R,S)-dihydroxybutane. I inhibited renin with IC50's of
     0.3-4000 nM.
IT
     119609-96-0P
     RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic
     preparation); BIOL (Biological study); PREP (Preparation)
        (prepn. of, as remin inhibitor)
```

L-Leucinamide, N-[[(5-amino-5-carboxypentyl)amino]carbonyl]-O-methyl-L-

tyrosyl-N-{1-(cyclohexylmethyl)-2,3-dihydroxy-5-methylhexyl}-,

[1(S),2[1S-(1R*,2S*,3R*)]]- (9CI) (CA INDEX NAME)

RN

119609-96-0 CAPLUS

L10 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1985:3105 CAPLUS

DOCUMENT NUMBER: 102:3105

TITLE: Protection by D-amino acids against growth inhibition

and lysis caused by .beta.-lactam antibiotics

AUTHOR (S): Tuomanen, Elaine; Tomasz, Alexander

CORPORATE SOURCE:

Rockefeller Univ., New York, NY, 10021, USA Antimicrob. Agents Chemother. (1984), 26(3), 414-16 SOURCE:

CODEN: AMACCQ; ISSN: 0066-4804

DOCUMENT TYPE: Journal LANGUAGE: English

D-Isomers of several amino acids completely protected growing cultures of Escherichia coli against all antibacterial effects of .beta.-lactam antibiotics up to 2-3-fold the min. inhibitory concns. of the antibiotics. L-Isomers of amino acids were ineffective. Protection depended on the concn. and time of addn. of the D-amino acids. This appears to be the first demonstration of natural products capable of reversing the antibacterial effects of .beta.-lactam antibiotics.

93265-85-1

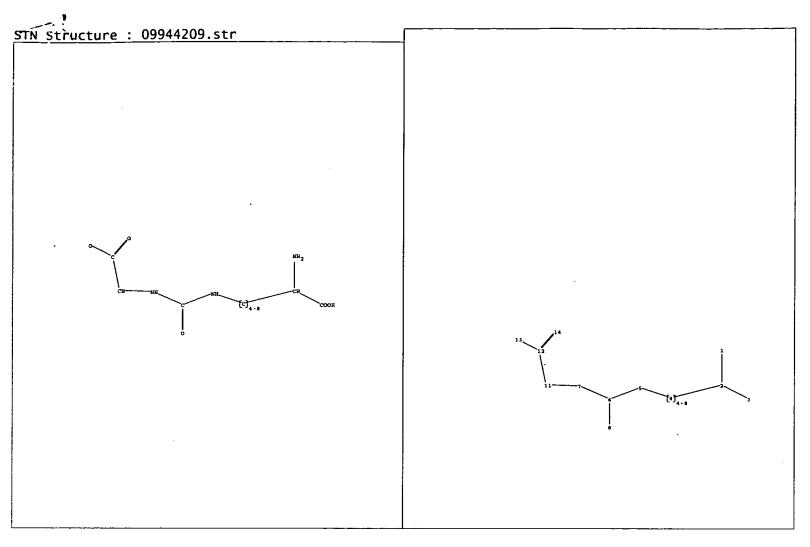
RL: BAC (Biological activity or effector, except adverse); BIOL

(Biological study)

(antibacterial activity of, D-amino acids protection against)

93265-85-1 CAPLUS

5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, CN 3-[(acetyloxy)methyl]-7-[[[4-[[[(5-amino-5-carboxypentyl)amino]carbonyl]am ino]phenyl]acetyl]amino]-8-oxo-, [6R-(6.alpha.,7.beta.)]- (9CI) (CA INDEX



chain nodes :
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chain bonds :
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exact/norm bonds :
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exact bonds :
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Match level:
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

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ACCESSION NUMBER:
                          1995:758638 CAPLUS
DOCUMENT NUMBER:
                          123:144647
TITLE:
                          Ureas derived from .alpha.,.omega.-diamino acids and
                          process for their preparation.
INVENTOR (S):
                          Callens, Roland; Blondeel, Georges; Anteunis, Marc;
                          Becu, Frank
PATENT ASSIGNEE(S):
                          Solvay et Cie., Belg.
SOURCE:
                          Eur. Pat. Appl., 10 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:
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LANGUAGE:
                          French
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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                       KIND DATE
                                             APPLICATION NO. DATE
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OTHER SOURCE(S):
                          CASREACT 123:144647; MARPAT 123:144647
     Ureas derived from .alpha.,.omega.-diamino acids are prepd. by reaction of
     N.omega.-(aryloxycarbonyl) diamino acid derivs. with compds. contg. a free
     amino group, in a basic medium. The method includes prepn. of acyclic
     ureas I [A = (un) substituted linear carbon chain; R = amino acid or
     peptide residue], cyclic ureas II, and cyclic urea-derived peptides III. The latter are analogs of TRH (TSH releasing hormone) with improved
     resistance to proteolytic digestion (no data). For example, reaction of
     25 mmol tryptophan with 5 mmol N.epsilon.-(phenyloxycarbonyl)lysine in H2O
     contg. LiOH at 75.degree. gave 880 mg N.epsilon.-(N.alpha.-
     tryptophancarbonyl)lysine plus 76 mg of a tripeptide byproduct. The method gives improved chem. yield without racemization. Alternatively,
     L-N.gamma.-(phenyloxycarbonyl)diaminobutyric acid was cyclized by Et3N in
     refluxing aq. MeOH to give L-2-oxohexahydropyrimidine-4-carboxylic acid
     (IV) in 95% yield. IV was coupled with H-His-Pro-NH2.2HBr by the mixed
     anhydride method to give the corresponding III.
IT
     166961-67-7P
     RL: BYP (Byproduct); PREP (Preparation)
        (byproduct; prepn. of ureas derived from .alpha.,.omega.-diamino acids)
     166961-67-7 CAPLUS
RN
     2,4,10,12-Tetraazaheptadecane-1,9,17-tricarboxylic acid,
CN
     17-amino-1-(1H-indol-3-ylmethyl)-3,11-dioxo-, [1S-(1R*,9R*,17R*)]- (9CI)
     (CA INDEX NAME)
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IT 166961-66-6P 166961-68-8P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(prepn. of ureas derived from .alpha.,.omega.-diamino acids)

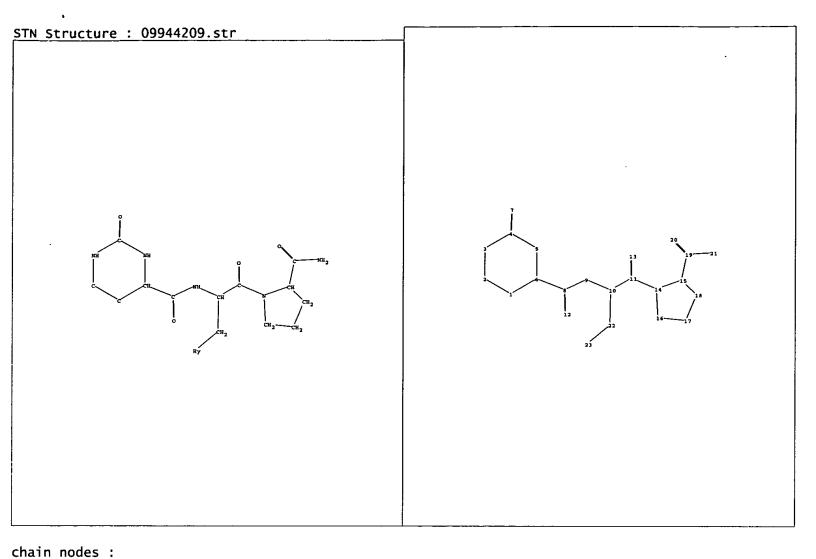
RN

166961-66-6 CAPLUS L-Tryptophan, N-[[(5-amino-5-carboxypentyl)amino]carbonyl]-, (S)- (9CI) CN (CA INDEX NAME)

Absolute stereochemistry.

RN

166961-68-8 CAPLUS L-Lysine, N6-[[[1-carboxy-3-(methylthio)propyl]amino]carbonyl]-, (S)-CN (9CI) (CA INDEX NAME)



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Match level:
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L11 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: DOCUMENT NUMBER:

2001:426820 CAPLUS

135:147620

TITLE:

A thyroliberin analogue reverses disturbances of behaviour and brain biogenic amine levels in

antenatally hypoxised rats

AUTHOR (S):

Semenova, Tatiana; Anoshkina, Irina; Fast, Alla;

Klusa, Vija

CORPORATE SOURCE:

Institute of Cell Biophysics, Russian Academy of

Sciences, Oblast, 142 292, Russia

SOURCE:

Proc. Latv. Acad. Sci., Sect. B (2001), 55(1), 23-29

CODEN: PLABFE; ISSN: 1407-009X

PUBLISHER:

Latvian Academy of Sciences

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Dihydroorotyl-histidyl-prolinamide (IOS-1.1101), a TSH-releasing hormone (TRH, or thyroliberin) analog, injected i.p. at a dose of 100 .mu.g.kg-1 in adult male rats which were hypoxised antenatally (on days 14-16 of their mothers' pregnancy), reversed the hypoxia-induced disturbances in attention, exploratory, emotional, and learning abilities, as well as in the brain noradrenaline and serotonin concns. The data obtained showed IOS-1.1101 to be a strong corrector of antenatal hypoxia-induced disturbances in CNS activity which can be manifested during rat adulthood. These anti-neurodeficit properties indicate the usefulness of this compd. in mentally retarded human newborns exposed to hypoxia during their fetal period.

59760-05-3

RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)

(thyroliberin analog reverses disturbances of behavior and brain

biogenic amine levels in antenatally hypoxised rats)

RN 59760-05-3 CAPLUS

L-Prolinamide, N-[[(4S)-hexahydro-2,6-dioxo-4-pyrimidinyl]carbonyl]-L-CN histidyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER:

L11 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2002 ACS

DOCUMENT NUMBER:

1995:758638 CAPLUS 123:144647

TITLE:

Ureas derived from .alpha.,.omega.-diamino acids and

process for their preparation.

INVENTOR (S):

Callens, Roland; Blondeel, Georges; Anteunis, Marc;

Becu, Frank

PATENT ASSIGNEE(S):

Solvay et Cie., Belg.

SOURCE:

Eur. Pat. Appl., 10 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE EP 629612 19941221 EP 1994-201643 19940609 A1

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                                          EP 1994-201643
                                                           A3 19940609
                                          US 1994-257292
                                                           B1 19940609
                                          US 1997-985658
                                                           A3 19970617
                          CASREACT 123:144647; MARPAT 123:144647
OTHER SOURCE(S):
     Ureas derived from .alpha.,.omega.-diamino acids are prepd. by reaction of
     N.omega.-(aryloxycarbonyl) diamino acid derivs. with compds. contg. a free
     amino group, in a basic medium. The method includes prepn. of acyclic
     ureas I [A = (un) substituted linear carbon chain; R = amino acid or
     peptide residue), cyclic ureas II, and cyclic urea-derived peptides III. The latter are analogs of TRH (TSH releasing hormone) with improved
     resistance to proteolytic digestion (no data). For example, reaction of
     25 mmol tryptophan with 5 mmol N.epsilon.-(phenyloxycarbonyl)lysine in H2O
     contg. LiOH at 75.degree. gave 880 mg N.epsilon.-(N.alpha.-
     tryptophancarbonyl)lysine plus 76 mg of a tripeptide byproduct. The
     method gives improved chem. yield without racemization. Alternatively,
     L-N.gamma.-(phenyloxycarbonyl)diaminobutyric acid was cyclized by Et3N in
     refluxing aq. MeOH to give L-2-oxohexahydropyrimidine-4-carboxylic acid
     (IV) in 95% yield. IV was coupled with H-His-Pro-NH2.2HBr by the mixed
     anhydride method to give the corresponding III.
IT
     166961-72-4P
     RL: BAC (Biological activity or effector, except adverse); IMF (Industrial
     manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (TRH analog; prepn. of ureas derived from .alpha.,.omega.-diamino
        acids)
```

L-Prolinamide, N-[(hexahydro-2-oxo-4-pyrimidinyl)carbonyl]-L-histidyl-

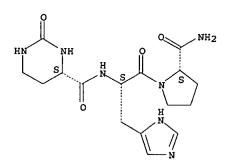
Absolute stereochemistry.

166961-72-4 CAPLUS

(CA INDEX NAME)

RN

CN



L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1990:498021 CAPLUS

DOCUMENT NUMBER: 113:98021

TITLE: Synthesis and central nervous system actions of thyrotropin-releasing hormone analog containing a

dihydroorotic acid moiety

AUTHOR(S): Suzuki, Mamoru; Sugano, Hiroshi; Matsumoto, Kazuo;

Yamamura, Michio; Ishida, Ryuichi

CORPORATE SOURCE: Res. Lab. Appl. Biochem., Tanabe Seiyaku Company Ltd.,

Osaka, 532, Japan

SOURCE: J. Med. Chem. (1990), 33(8), 2130-7

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:98021

AB A series of TSH-releasing hormone (TRH) analogs in which the pyroglutamic acid residue was replaced by (S)-4,5-dihydroorotic acid and related derivs. were prepd. Their central nervous system actions based on spontaneous locomotor activity, antagonistic effect on reserpine-induced hypothermia, and antagonistic effect on pentobarbital anesthesia were evaluated and the structure-activity relationships are discussed. Of these, analog I showed the most potent activities, which were 30-90 times greater than those of TRH. Moreover, the TSH-releasing activity of I was about 50 times weaker than that of TRH.

IT 59760-05-3P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and central nervous system activity of)

RN 59760-05-3 CAPLUS

CN L-Prolinamide, N-[[(4S)-hexahydro-2,6-dioxo-4-pyrimidinyl]carbonyl]-L-histidyl- (9CI) (CA INDEX NAME)

L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1981:527698 CAPLUS

DOCUMENT NUMBER: 95:127698

TITLE: Degradation of TRF and TRF analogs by brain and serum

enzyme

AUTHOR(S): Bauer, Karl; Kleinkauf, Horst; Flohe, Leopold CORPORATE SOURCE: Max-Volmer-Inst., Tech. Univ. Berlin, Berlin,

D-1000/10, Fed. Rep. Ger.

SOURCE: Struct. Act. Nat. Pept., Proc. Fall Meet. Ges. Biol.

Chem. (1981), Meeting Date 1979, 437-47. Editor(s): Voelter, Wolfgang; Weitzel, Guenther. de Gruyter:

Berlin, Fed. Rep. Ger. CODEN: 45VYAS

CODEN: 45VYAS

DOCUMENT TYPE: Conference LANGUAGE: English

Neither pyroglutamate aminopeptidase (I) nor thyrotropin-releasing factor (TRF)-degrading serum enzyme (II) degraded TRF analogs in which the pyroglutamyl was replaced by a 6-membered ring. II catalyzed the degrdn. of a thiazolidinone TRF deriv., but not that of the corresponding imidazolidinone analog. By contrast, I hydrolyzed the imidazolidinone deriv. more efficiently than TRF itself. All TRF analogs contg. the structure -His-Pro-NH2 were deaminated by post-proline-cleaving enzyme (III). TRF, the 5-membered-ring analogs of TRF, and orotyl-contg. TRF analogs were degraded at comparable rates, whereas thiomorpholine-contg. analogs of TRF were deaminated more slowly. Although orotyl-His-Pro-NH2 was deaminated more rapidly than TRF itself, orotyl-His-Pro-NHCH3 was not degraded by III. Thus, the affinity of substrates for these enzymes is influenced by structural elements remote from the scissile peptide bond.

IT 79056-84-1 RL: RCT (Reactant)

(reaction of, with brain and serum enzymes, releasing factor degrdn. in relation to)

RN 79056-84-1 CAPLUS

L-Prolinamide, N-[(hexahydro-2,6-dioxo-4-pyrimidinyl)carbonyl]-L-histidyl-(9CI) (CA INDEX NAME)

5,151,497

L11 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER:

DOCUMENT NUMBER:

1976:447062 CAPLUS

TITLE:

85:47062 Dipeptide derivatives

INVENTOR (S):

Schwertner, Eberhard; Herrling, Siegfried

PATENT ASSIGNEE(S):

Chemie Gruenenthal G.m.b.H., Ger.

SOURCE:

Ger. Offen., 21 pp. CODEN: GWXXBX

AB

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION: PATENT NO

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2449167	A1	19760422	DE 1974-2449167	19741016
DE 2449167	C2	19840524		
US 3876872	A	19750408	US 1971-189252 .	19711014
ZA 7206620	A	19730725	ZA 1972-6620	19720927
AU 7247113	A1	19740404	AU 1972-47113	19720927
IT 987571	Α	19750320	IT 1972-29950	19720930
GB 1413822	Α	19751112	GB 1972-45834	19721004
GB 1413823	Α	19751112	GB 1975-27168	19721004
DE 2249860	A1	19730530	DE 1972-2249860	19721011
FR 2187155	A5	19740111	FR 1972-36439	19721013
JP 48061888	A2	19730829	JP 1972-103166	19721014
AT 348694	В	19790226	AT 1975-6044	19750804
NL 7510288	A	19760421	NL 1975-10288	19750901
NL 183764	В	19880816		
NL 183764	C	19890116		
SE 408300	С	19790913	SE 1975-9703	19750901
SE 408300	В	19790605		
ZA 7505956	A	19760825	ZA 1975-5956	19750918
JP 51065775	A2	19760607	JP 1975-122966	19751014
JP 60009518	B4	19850311		
ES 441788	A1	19770616	ES 1975-441788	19751014
DK 7504637	Α	19760417	DK 1975-4637	19751015
DK 149063	В	19860106		
DK 149063	С	19860616		
FR 2287916	A1	19760514	FR 1975-31599	19751015
CA 1056818	A1	19790619	CA 1975-237665	19751015
СН 616913	Α	19800430	CH 1975-13382	19751015
BE 834590	A1	19760416	BE 1975-161007	19751016
US 4045556	A	19770830	US 1975-622804	19751016
AT 7707218	A	19790615	AT 1977-7218	19771010
AT 354657	В	19790125		
AT 7803009	A	19800515	AT 1978-3009	19780426
AT 360186	В	19801229		,,,,,,
RITY APPLN. INFO	. :		US 1971-189252	19711014
			DE 1974-2449167	19741016
			DE 1975-2527723	19750621
			AT 1975-6044	19750804

Treatment of L-histidine with the N-hydroxysuccinimide ester of

 $\hbox{N-benzyloxycarbonyl-$L-2-$oxoimidazolidine-4-$carboxylic acid followed by}$ L-prolinamide and debenzyloxycarbonylation gave L-2-oxoimidazolidine-4carbonyl-L-histidyl-L-prolinamide. Condensation of orotic acid or L-5-oxothiomorpholine-3-carboxylic acid with His-Pro-NH2.2HBr gave orotyl-or L-5-oxothiomorpholine-3-carbonyl-L-histidyl-L-prolinamide. 59760-05-3P

ΙT RL: SPN (Synthetic preparation); PREP (Preparation)

RN

(prepn. of)
59760-05-3 CAPLUS
L-Prolinamide, N-[[(4S)-hexahydro-2,6-dioxo-4-pyrimidinyl]carbonyl]-L-histidyl- (9CI) (CA INDEX NAME) CN

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L14 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN
      24305-27-9 REGISTRY
      L-Prolinamide, 5-oxo-L-prolyl-L-histidyl- (9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
      Thyrotropin-releasing factor (8CI)
CN
OTHER NAMES:
      (Pyro)-L-glutamic acid-L-histidine-L-proline-NH2
CN
CN
      Antepan
CN
      FDA 1725
CN
      L-Pyroglutamyl-L-histidyl-L-prolinamide
      L-Pyroglutamyl-L-histidyl-L-proline amide
CN
      Lopremone
CN
CN
      Prem
CN
      Protirelin
      Relefact TRH
CN
CN
      Rifathyroin
CN
      Rifotironin
CN
      Ro 8-6270/9
CN
      Synthetic thyrotropin-releasing factor
      Synthetic thyrotropin-releasing hormone
CN
CN
      Synthetic TRF
      Synthetic TRH
CN
CN
      Synthetic TSH-releasing factor
CN
      Synthetic TSH-releasing hormone
CN
      Thyrefact
CN
      Thyroid releasing hormone
CN
      Thyroid-stimulating hormone-releasing factor
CN
      Thyroliberin
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      Thyrotropic hormone-releasing factor
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           (*File contains numerically searchable property data)
      Other Sources: EINECS**, WHO
           (**Enter CHEMLIST File for up-to-date regulatory information)
```

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT